

**Record 15: JP7126316A****(ENG) PRODUCTION OF ETHYLENE COPOLYMER****Assignee:** SHOWA DENKO KK

[ no drawing available]

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**Abstract:** (ENG) <sec>PURPOSE: To obtain an ethylene copolymer for hollow molding which has an excellent balance between rigidity and environmental-stress cracking resistance(ESCR) through two-stage copolymerization using a Ziegler catalyst by adding a specific compound to the second-stage polymerization zone. CONSTITUTION: An ethylene copolymer is produced by the two-stage copolymerization of ethylene and an  $\alpha$ -olefin using a Ziegler catalyst. High-mol. components are produced in the first polymerization zone, and low-mol. components are then produced in the second polymerization zone in the presence of a compound (a) represented by the formula (wherein R<sub>1</sub> to R<sub>4</sub> each independently is hydrogen, an alkyl, an aryl, an aralkyl, an alkoxy, etc., and (n) is an integer of 1-10). The compound (a) is fed in such an amount that the molar ratio of the compound (a) to the Ti atoms contained in the catalyst present in the second-stage polymerizer is about 0.1-50.</sec>

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